

## ABSTRACT OF THE DISCLOSURE

[0044] Systems and methods for making a self-aligning optical system are provided. Briefly described, in architecture, one such system for making an optical system, among others, can be implemented as follows. The system comprises a grating substrate supporting a holographically-formed diffraction grating and an array mount for defining relative locations of point sources of light. The array mount comprises recording points that define locations of point sources of recording light used to illuminate the grating substrate during fabrication of the holographically-formed diffraction grating and use points that define locations of light apertures used in operation of the holographically-formed diffraction grating. Other systems and methods are also provided.